# Repère Complexe.

- $M_1 = S_{(O,\vec{u})}(M)$

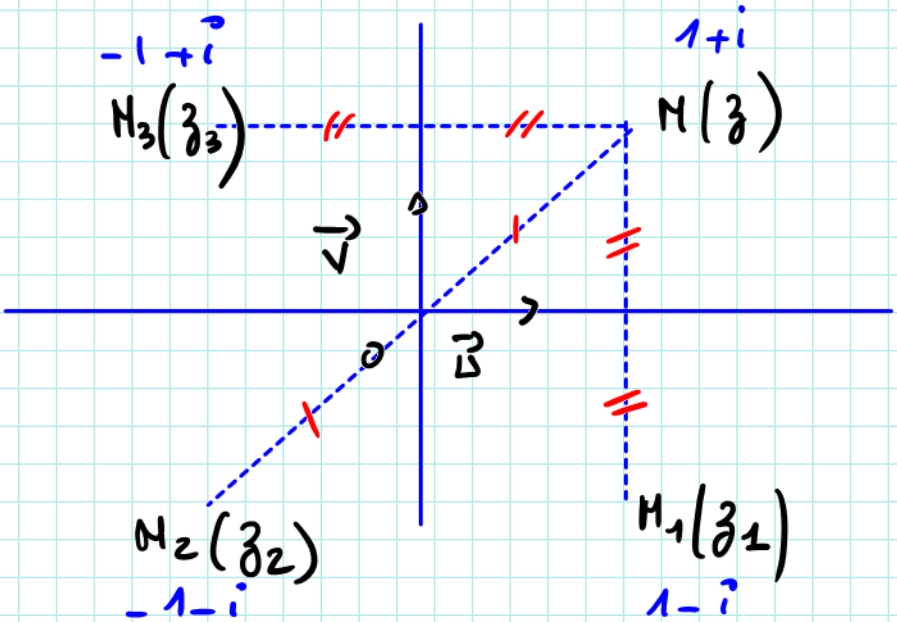
$\Rightarrow \boxed{z_1 = \overline{z}}$

- $M_2 = S_O(M)$

$\Rightarrow \boxed{z_2 = -z}$

- $M_3 = S_{(O,\vec{v})}(M)$

$\Rightarrow \boxed{z_3 = -\overline{z}}$




- $z_A = 2+3i \longrightarrow A(2,3)$

- $z_M = x+iy \longrightarrow M(x,y)$

- $\boxed{z_{\overrightarrow{AB}} = z_B - z_A}$ ; $\boxed{z_M = z_{\overrightarrow{OM}}}$.

- ABCD est un plg $\Leftrightarrow z_{\overrightarrow{AB}} = z_{\overrightarrow{DC}}$.
(A, B et C non alignés)

ou

$A * C = B * D$

$\Updownarrow$

$\frac{z_A + z_C}{2} = \frac{z_B + z_D}{2}$